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	Express Mail Label No.	EJ721789044US
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Title of Application: METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF MANUFACTURE FOR DOWNLOADING A REMOTE COMPUTER PROGRAM ACCORDING TO A STORED CONFIGURATION

Transmitted with the patent application are the following:

<u>25</u>	Page(s)	Specification, Claims and Abstract
<u>4</u>	Page(s)	Formal drawings
<u>3</u>	Page(s)	Declaration and Power of Attorney
<u>2</u>	Page(s)	Assignment of the Invention to International Business Machines Corporation (incl. Rec. Cover Sheet)
<u>2</u>	Page(s)	Information Disclosure Statement (IDS/PTO 1449) (copies of citations not included in number of pages)
<u>X</u>		Copies of IDS citations
<u>X</u>		Return Receipt Postcard (MPEP 503).

Fee Calculation:

	Claims		Extra	Rate	Fees
Basic Fee					\$710.00
Total Claims	18	-20 =	0	x \$18.00	
Independent Claims	3	-3 =	0	x \$80.00	
Multiple Dependent Claims				+\$270.00	
				TOTAL	\$710.00

- X Please charge my Deposit Account No. 09-0460 in the amount of \$ 710.00. A duplicate copy of this sheet is attached.
X The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account 09-0460. A duplicate copy of this sheet is attached.
X Any filing fees under 37 CFR 1.16 for the presentation of extra claims.
X Any patent application processing fees under 37 CFR 1.17.

EXPRESS MAIL CERTIFICATE

with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, DC 20231

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Express Mail Label #: EJ721789044US

SPECIFICATION

IBM Docket No. STL920000091US1

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that We, Howard J. Glaser of San Jose, California and citizen of the United States, Laurence E. England of Morgan Hill, California and citizen of the United States, Rebecca Lau Poole of San Jose, California and citizen of the United States, and Chenhong Xia of San Jose, California and resident of the United States, have invented new and useful improvements in

METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF MANUFACTURE FOR DOWNLOADING A REMOTE COMPUTER PROGRAM ACCORDING TO A STORED CONFIGURATION

of which the following is a specification:

1
2
3 **METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF**
4 **MANUFACTURE FOR DOWNLOADING A REMOTE COMPUTER PROGRAM**
5 **ACCORDING TO A STORED CONFIGURATION**
6
7
8

9 **CROSS-REFERENCE TO RELATED APPLICATIONS**
10

11 Application Serial Number _____, filed concurrently herewith on October 12,
12 2000 for METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF
13 MANUFACTURE FOR INSTALLATION AND CONFIGURATION OF A COMPUTER
14 PROGRAM ACCORDING TO A STORED CONFIGURATION (IBM Docket
15 STL920000062), currently co-pending, and assigned to the same assignee as the present
16 invention; and

17 Application Serial Number _____, filed concurrently herewith on October 12,
18 2000 for METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF
19 MANUFACTURE FOR UPDATING A COMPUTER PROGRAM ACCORDING TO A
20 STORED CONFIGURATION (IBM Docket STL920000092), currently co-pending, and
21 assigned to the same assignee as the present invention.

22 The foregoing co-pending applications are incorporated herein by reference.
23
24

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates in general to computer programs, and more particularly to a downloading of a computer program.

2. Description of the Related Art

Customers and providers may have a number of requirements in installing or deploying an application program.

Customers may prefer to remotely install application program clients from a central server(s) in order to increase both installation productivity and maintenance productivity. Thin clients may be preferred as thin clients generally require less workstation customization, perhaps as little as a browser with the appropriate option settings and plugins. Preferably, users should be able to move between different workstations, and still be able to access their tools and data, another potential advantage of a thin client. A customer may prefer to control which application programs and which versions of the application programs are available to a particular user. In addition to controlling the application programs, a customer may wish to control access to resources and assets based upon a user's responsibilities and roles in an organization. Alternatively, the customer may wish to control and filter project work views based on the user's responsibilities and roles. In addition to such central control, the customer may want an inventory of the application programs (including versions) installed and used on a workstation or a group of workstations without the need to go to each user workstation.

An application program provider may also have a number of similar requirements in installing or deploying an application program. The provider may also want for licensing purposes the inventory of the application programs (including versions) installed and used on a workstation or a group of workstations without the need to go to each user workstation. To satisfy a customer's specific individual requirements, the provider would prefer a mechanism for configuring the application program to support a customer solution which may be tailored by the customer to suit the customers needs, such as role-based views.

Conventional systems and methods have failed to provide all of the above advantages. Thus, there is a clearly felt need for a method, system, article of manufacture, and computer program product for providing application program downloading with these advantages.

SUMMARY OF THE INVENTION

The present invention comprises a method, system, article of manufacture, and a computer program product for downloading an application program. A configuration of the application program corresponding to a particular user of the local application is defined and stored on a remote server. In response to the user requesting the application program, a session is initiated between the local data processing system and the remote data processing system, and the user is authenticated. Responsive to the user authentication, data is downloaded from the remote server to the local data processing system according to the stored configuration. This stored configuration also may be encrypted and stored in a manifest file which is decrypted to produce a decrypted configuration in response to the user authentication. Data may then be downloaded from the remote data processing system to the local data processing system according to the decrypted configuration. The application program may be constructed pursuant to the configuration file or the decrypted configuration file.

One aspect of a preferred embodiment of the present invention defines a configuration of an application program corresponding to a particular user of the application program.

Another aspect of a preferred embodiment of the present invention stores the configuration on a remote server executing on a remote data processing system.

Another aspect of a preferred embodiment of the present invention initiates a session between the local data processing system and the remote data processing system in response to the user requesting the application program.

Another aspect of a preferred embodiment of the present invention authenticates the user in response to the user request.

Another aspect of a preferred embodiment of the present invention determines that the

1 stored configuration corresponds to the requesting user.

2
3 Another aspect of a preferred embodiment of the present invention downloads data
4 from the remote data processing system to the local data processing system according to the
5 stored configuration.

6
7 Another aspect of a preferred embodiment of the present invention encrypts the stored
8 configuration into a manifest file.

9
10 Another aspect of a preferred embodiment of the present invention downloads the
11 manifest file from the remote data processing system to the local data processing system.

12
13 Another aspect of a preferred embodiment of the present invention decrypts the
14 manifest file in response to the user authentication.

15
16 Another aspect of a preferred embodiment of the present invention builds the
17 application program pursuant to the configuration decrypted from the manifest file.

18
19 Another aspect of a preferred embodiment of the present invention authenticates the
20 user in response to the user requesting a build of the application program.

21
22 The present invention has the advantage of providing improved downloading of a
23 computer program.

24
25 The present invention has the further advantage of providing a download of an
26 application program client from a central server(s) in order to increase installation productivity
27 and maintenance productivity.

28
29 The present invention has the further advantage of providing control over which

BRIEF DESCRIPTION OF THE DRAWINGS

For a more complete understanding of the present invention and the advantages thereof, reference is now made to the Description of the Preferred Embodiment in conjunction with the attached Drawings, in which:

Figure 1 is a block diagram of a distributed computer system used in performing the method of the present invention, forming part of the apparatus of the present invention, and which may use the computer program product and article of manufacture comprising a computer-readable storage medium having a computer program embodied in said medium which may cause the computer system to practice the present invention;

Figure 2 is a block diagram of an application server and a user workstation preferred in carrying out a preferred embodiment of the present invention; and

Figure 3 and **Figure 4** are flowcharts of method steps preferred in carrying out a preferred embodiment of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

An embodiment of the invention is now described with reference to the figures where like reference numbers indicate identical or functionally similar elements. Also in the figures, the left most digit of each reference number corresponds to the figure in which the reference number is first used. While specific configurations and arrangements are discussed, it should be understood that this is done for illustrative purposes only. A person skilled in the relevant art will recognize that other configurations and arrangements can be used without departing from the spirit and scope of the invention. It will be apparent to a person skilled in the relevant art that this invention can also be employed in a variety of other devices and applications.

With reference now to the figures, and in particular with reference to **Fig. 1**, there is depicted a pictorial representation of a distributed computer system **8** which may be utilized to implement the method of, system for, article of manufacture, and computer program product of the present invention. As may be seen, distributed computer system **8** may include a plurality of networks **10** and **32**, which may be Local Area Networks (LAN), intranet networks, or internet networks, each of which preferably includes a plurality of individual computers **12** and **30**, respectively. Of course, those skilled in the art will appreciate that a plurality of Intelligent Work Stations (IWS) coupled to a host processor may be utilized for each such network.

As is common in such data processing systems, each individual computer may be coupled to a storage device **14** and/or a printer/output device **16**. One or more such storage devices **14** may be utilized, in accordance with the present invention, to store the various computer programs which may be accessed and executed by a user within the distributed computer system **8**, in accordance with the present invention. In a manner well known in the prior art, each such computer program may be stored within a storage device **14**.

Still referring to **Fig. 1**, it may be seen that distributed computer system **8** may also include multiple mainframe computers, such as mainframe computer **18**, which may be

preferably coupled to Local Area Network **10** by means of communication link **22**. Mainframe computer **18** may also be coupled to a storage device **20** which may serve as remote storage for Local Area Network **10** which may be coupled via communications controller **26** and communications link **34** to a gateway server **28**. Gateway server **28** is preferably an individual computer or Intelligent Work Station which serves to link Local Area Network **32** to Local Area Network **10**.

As discussed above with respect to Local Area Network **32** and Local Area Network **10**, a plurality of server computer programs may be stored within storage device **20** and executed by mainframe computer **18**. Similarly, a plurality of client computer programs may be stored within storage devices **14** and executed by individual computers **12** such that distributed client/server computer programs are provided. Of course, those skilled in the art will appreciate that the mainframe computer **18** may be located a great geographical distance from Local Area Network **10**, and similarly, Local Area Network **10** may be located a substantial distance from Local Area Network **32**. That is, Local Area Network **32** may be located in California while Local Area Network **10** may be located within Texas and mainframe computer **18** may be located in New York.

As will be appreciated upon reference to the foregoing, it is desirable for a user of a workstation **12** to be able to remotely install an application program from server **18**. A configuration of the application program corresponding to this particular user of the application program is defined and stored on a remote storage **20** of the remote server **18**. In response to a user request communicated from the user workstation **12** to the server **18** via LAN **10** and communications link **22**, the server **18** determines that the configuration stored on storage **20** corresponds to the requesting user. Server **18** authenticates the user, and after such authentication, data is downloaded to the workstation **12** from the remote server **18** according to the stored configuration. This stored configuration is also encrypted and stored in a manifest file which is also downloaded. Responsive to the user authentication, the manifest file is decrypted, and the application program is constructed, configured, and installed on workstation

12 pursuant to the configuration decrypted from the manifest file. The user may also move from a first workstation 12 on which the application program is installed to a different second workstation 12 on LAN 10 and still be able to access the user's tools and data which may be downloaded and installed on the second workstation 12 in a similar fashion to the download and installation on the first workstation 12. Using the user configurations and authentications stored on storage 20 and the server 18, a customer may control the application programs, the versions of these application programs, and resources that are available to the particular user.

The customer may also inventory the application programs (including versions) installed and used on a workstation 12 or a group of workstations 12 on LAN 10 without the need to go to each user workstation. An application program provider may also want for licensing purposes such an inventory which may be produced by customer's server 18 or the provider's server 26.

Referring now to **Figure 2**, a block diagram of a preferred embodiment of the present invention is illustrated. A file known as a manifest file or manifest 244 provides a description as to which plugins, configurations, and other resources should be loaded when an application program, such as an Integrated Development Environment (IDE), is initialized. Although the preferred embodiment is presented in the context of an IDE, those skilled in the art will recognize that the invention may be practiced with other types of application programs. The preferred embodiment uses this manifest to provide a mechanism for plugging in tools or components to provide a customized application program with the appropriate viewers, editors, browsers, and other resources to support the user's needs. For example, a customized IDE may be provided with the appropriate viewers, editors, and browsers to support a specific developer's needs. Furthermore, the preferred embodiment allows remote customization and configuration of the application program for an individual user based on the user's role and responsibility in an organization.

1 The preferred embodiment of the present invention comprises an application server
2 **202**, which may be behind a web server, that is used to define users **204**, **206**, and **208** in a user
3 table **210** and to define the users' application program configurations (**214**, **216**, and **218**) in a
4 user IDE configuration table **220**. This configuration may include plugins **222** to be
5 downloaded , user authorizations for each user **224**, templates for builds **226** (pre packaged
6 site JCL), location/configuration of site servers **228**, other information **230** such as the location
7 and configuration of system input/output (I/O), and any site specific documentation **232** which
8 may be shown in a browser or plugin.

9
10 A security system **234**, such as a certificate or simple a logon dialog, may be used by a
11 user to initiate a session **236** with the server **202**. Upon authentication of the user by the
12 security system **234**, a table lookup of the user table **210** is performed and plugins **222**,
13 authorizations **224**, templates **226**, server information **228**, and documentation **232** are
14 aggregated into the user's components **238** which are downloaded via the download **240** to the
15 user's workstation **242**. In addition, a manifest **244** is created with this configuration
16 information. This manifest **244** is encrypted and requires authentication from a security system
17 **246** on the workstation **242** to be decrypted and used to build **248** an application program **250**.

18
19 After the download **240** to the user's workstation **242**, the user through a local logon in
20 the security system **246** invokes the decryption and use of the manifest **244** to build **248** the
21 user's personalized application program **250**. Meanwhile a request may be sent, preferably
22 unknown to the user, to the server **202** to check a component configuration table **252**
23 maintained in the application server **202** to determine if any items have been updated.
24 Alternatively, a request may be sent to the server **202** to record in a components inventory **254**
25 which tools are being used by the user.

26
27 Referring now to **Figures 3 and 4**, the flowcharts **300** and **400** illustrate the operations
28 preferred in carrying out the preferred embodiment of the present invention. In the flowcharts,
29 the graphical conventions of a diamond for a test or decision and a rectangle for a process or

function are used. These conventions are well understood by those skilled in the art, and the flowcharts are sufficient to enable one of ordinary skill to write code in any suitable computer programming language.

After the start **305** of the process **300**, process block **310** defines a configuration of the application corresponding to a particular user **206** of the application, such as user 2, and process block **315** then stores the configuration **216** on a remote server **202** executing on a remote data processing system **18**. Alternatively, the configuration **216** may be stored on local data processing system **242**. Thereafter, process block **320** may initiate a session between the local data processing system **242** and the application server **202** on remote data processing system **18** in response to the user **206** requesting the application. Responsive to this user request, process block **325** authenticates the user **206**, and process block **330** then determines that the stored configuration **216** corresponds to the requesting user **206**. Process block **335** then downloads data **240** from the remote data processing system **202** to the local data processing system **242** according to the stored configuration **216**. Alternatively, process block **335** may access the data **240** from the local data processing system **242** or from another resource within the distributed computer system **8** according to the stored configuration **216**. Thereafter, processing continues to decision block **450** on **Figure 4**. This processing path is illustrated by flowchart connectors **A**, **340** on **Figure 3** and **445** on **Figure 4**. Process block **450** encrypts the stored configuration **216** into a manifest file **244** which is then downloaded by process block **455** from the remote data processing system **202** to the local data processing system **242**. Alternatively, process block **450** may encrypt the stored configuration **216** into a manifest file **244** which is then stored on the local data processing system **242**. After the download **240** of the manifest file **244** and the components **238** to the user workstation **242**, the user **206** may request a build **248** of the downloaded components **238** pursuant to the configuration in the manifest file **244**. Responsive to such a user request, the user is authenticated by process block **460**, and if the user **206** is authenticated, then process block **465** decrypts the manifest file **244**. Thereafter, process block **470** builds, installs, and configures the application program **250** pursuant to the configuration decrypted from the manifest file **244**.

1 The process then ends at process block **475**.

2
3 In an alternative embodiment of the present invention, an application program is
4 updated for execution on the data processing system. In this alternative embodiment, process
5 block **330** also determines if any items described in the configuration have been updated. If an
6 item has been updated, then process block **335** retrieves the updated item, and process block
7 **470** builds the application program with the updated item.
8

9 In still another alternative embodiment of the present invention, an application program
10 is updated for execution on the data processing system based upon determining if any items
11 described in the decrypted configuration have been updated. In this alternative embodiment,
12 process block **465** also determines if any items described in the decrypted configuration have
13 been updated. If an item has been updated, then process block **470** retrieves the updated item
14 and builds the application program with the updated item.
15

16 Using the foregoing specification, the invention may be implemented using standard
17 programming and/or engineering techniques using computer programming software, firmware,
18 hardware or any combination or sub-combination thereof. Any such resulting program(s),
19 having computer readable program code means, may be embodied within one or more
20 computer usable media such as fixed (hard) drives, disk, diskettes, optical disks, magnetic tape,
21 semiconductor memories such as Read-Only Memory (ROM), Programmable Read-Only
22 Memory (PROM), etc., or any memory or transmitting device, thereby making a computer
23 program product, i.e., an article of manufacture, according to the invention. The article of
24 manufacture containing the computer programming code may be made and/or used by
25 executing the code directly or indirectly from one medium, by copying the code from one
26 medium to another medium, or by transmitting the code over a network. An apparatus for
27 making, using, or selling the invention may be one or more processing systems including, but
28 not limited to, central processing unit (CPU), memory, storage devices, communication links,
29 communication devices, servers, input/output (I/O) devices, or any sub-components or

individual parts of one or more processing systems, including software, firmware, hardware or any combination or sub-combination thereof, which embody the invention as set forth in the claims. User input may be received from the keyboard, mouse, pen, voice, touch screen, or any other means by which a human can input data to a computer, including through other programs such as application programs, databases, data sets, or files.

One skilled in the art of computer science will easily be able to combine the software created as described with appropriate general purpose or special purpose computer hardware to create a computer system and/or computer sub-components embodying the invention and to create a computer system and/or computer sub-components for carrying out the method of the invention. Although the present invention has been particularly shown and described with reference to a preferred embodiment, it should be apparent that modifications and adaptations to that embodiment may occur to one skilled in the art without departing from the spirit or scope of the present invention as set forth in the following claims.

CLAIMS

We claim:

1. An article of manufacture for use in a data processing system for downloading an application program from a remote data processing system for execution on a local data processing system, said article of manufacture comprising a computer-readable storage medium having a computer program embodied in said medium which causes the data processing system to execute the method steps comprising:

defining and storing a configuration of the application program corresponding to a particular user of the application program;

initiating a session between the local data processing system and the remote data processing system in response to the user requesting the application program;

authenticating the user in response to the user requesting the application program; and

responsive to the user authentication, downloading data from the remote data processing system to the local data processing system according to the stored configuration.

1 2. The article of manufacture of claim 1 wherein the data processing system is a local data
2 processing system, and wherein the computer program embodied in said medium causes the
3 data processing system to execute the additional method steps comprising:

4
5 encrypting and storing the configuration in a manifest file;

6 decrypting the manifest file to produce a decrypted configuration in response to
7 the user authentication; and

8 downloading data from the remote data processing system to the local data
9 processing system according to the decrypted configuration.

10 3. The article of manufacture of claim 2 wherein the computer program embodied in said
1 medium causes the data processing system to execute the additional method steps comprising:

2 encrypting and storing the configuration in a manifest file stored on the remote
3 data processing system;

4 downloading the manifest file from the remote data processing system to the
5 local data processing system;

6 decrypting the downloaded manifest file to produce a downloaded configuration
7 in response to the user authentication; and

8 downloading data from the remote data processing system to the local data
9 processing system according to the downloaded configuration.
10

1 4. The article of manufacture of claim 1 wherein the computer program embodied in said
2 medium causes the data processing system to execute the additional method step comprising:
3 building the application program pursuant to the configuration decrypted from
4 the manifest file responsive to the second authentication.

1 5. The article of manufacture of claim 4 wherein the computer program embodied in said
2 medium causes the data processing system to execute the additional method steps comprising:

3 authenticating the user in a second authentication responsive to the user
4 requesting a build of the application program;

5 decrypting the manifest file responsive to the second authentication; and

6 building the application program pursuant to the configuration decrypted from
7 the manifest file responsive to the second authentication.

1 6. The article of manufacture of claim 1 wherein the configuration comprises data
2 describing the user, the user's application program configuration, and resources for which the
3 user is authorized.

1 7. A method of downloading an application program from a remote data processing
2 system for execution on a local data processing system, said method comprising the steps of:
3
4 defining and storing a configuration of the application program corresponding to
5 a particular user of the application program;

6 initiating a session between the local data processing system and the remote data
7 processing system in response to the user requesting the application program;

8 authenticating the user in response to the user requesting the application
9 program; and

10 responsive to the user authentication, downloading data from the remote data
11 processing system to the local data processing system according to the stored
12 configuration.

1 8. The method of claim 7 wherein the data processing system is a local data processing
2 system, and wherein said method further comprises the steps of:
3
4 encrypting and storing the configuration in a manifest file;

5 decrypting the manifest file to produce a decrypted configuration in response to
6 the user authentication; and

7 downloading data from the remote data processing system to the local data
8 processing system according to the decrypted configuration.

1 9. The method of claim 8 further comprising the steps of:

2 encrypting and storing the configuration in a manifest file stored on the remote
3 data processing system;

4 downloading the manifest file from the remote data processing system to the
5 local data processing system;

6 decrypting the downloaded manifest file to produce a downloaded configuration
7 in response to the user authentication; and

8 downloading data from the remote data processing system to the local data
9 processing system according to the downloaded configuration.

1 10. The method of claim 7 further comprising the step of:

2 building the application program pursuant to the configuration decrypted from
3 the manifest file responsive to the second authentication.

1 11. The method of claim 10 further comprising the steps of:

2 authenticating the user in a second authentication responsive to the user
3 requesting a build of the application program;

4 decrypting the manifest file responsive to the second authentication; and

5 building the application program pursuant to the configuration decrypted from
6 the manifest file responsive to the second authentication.

1 13. A computer system for use in a data processing system for downloading an application
2 program from a remote data processing system for execution on a local data processing system,
3 said computer system comprising:

4
5 a stored configuration of the application program corresponding to a particular
6 user of the application program;

7 a session between the local data processing system and the remote data
8 processing system in response to the user requesting the application program;

9 an authentication of the user in response to the user requesting the application
10 program; and

11 a downloader, responsive to the user authentication, for downloading data from
12 the remote data processing system to the local data processing system according to the
13 stored configuration.

1 14. The computer system of claim 13 further comprising:

2 a manifest file comprising an encrypted configuration;

3 a decryptor for decrypting the manifest file in response to the user
4 authentication; and

5 a downloader for downloading data from the remote data processing system to
6 the local data processing system according to the stored configuration.

1 15. The computer system of claim 14 further comprising:

2 a manifest file comprising an encrypted configuration stored on the remote data
3 processing system;

4 a downloader for downloading the manifest file from the remote data processing
5 system to the local data processing system;

6 a decryptor for decrypting the manifest file in response to the user authentication
7 to produce a downloaded configuration; and

8 a downloader, responsive to the user authentication, for downloading data from
9 the remote data processing system to the local data processing system according to the
10 downloaded configuration.

1 16. The computer system of claim 13 further comprising:

2 an application builder for building the application program pursuant to the
3 configuration decrypted from the manifest file responsive to the second authentication.

ABSTRACT

**METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF
MANUFACTURE FOR DOWNLOADING A REMOTE COMPUTER PROGRAM
ACCORDING TO A STORED CONFIGURATION**

A configuration of an application program corresponding to a particular user of the local application is defined and stored on a remote server. In response to the user requesting the application program, a session is initiated between the local data processing system and the remote data processing system, and the user is authenticated. Responsive to the user authentication, data is downloaded from the remote server to the local data processing system according to the stored configuration. This stored configuration may be encrypted and stored in a manifest file which is decrypted to produce a decrypted configuration in response to the user authentication, and data may be downloaded from the remote data processing system to the local data processing system according to the decrypted configuration. The application program may be constructed pursuant to the configuration file or the decrypted configuration file.

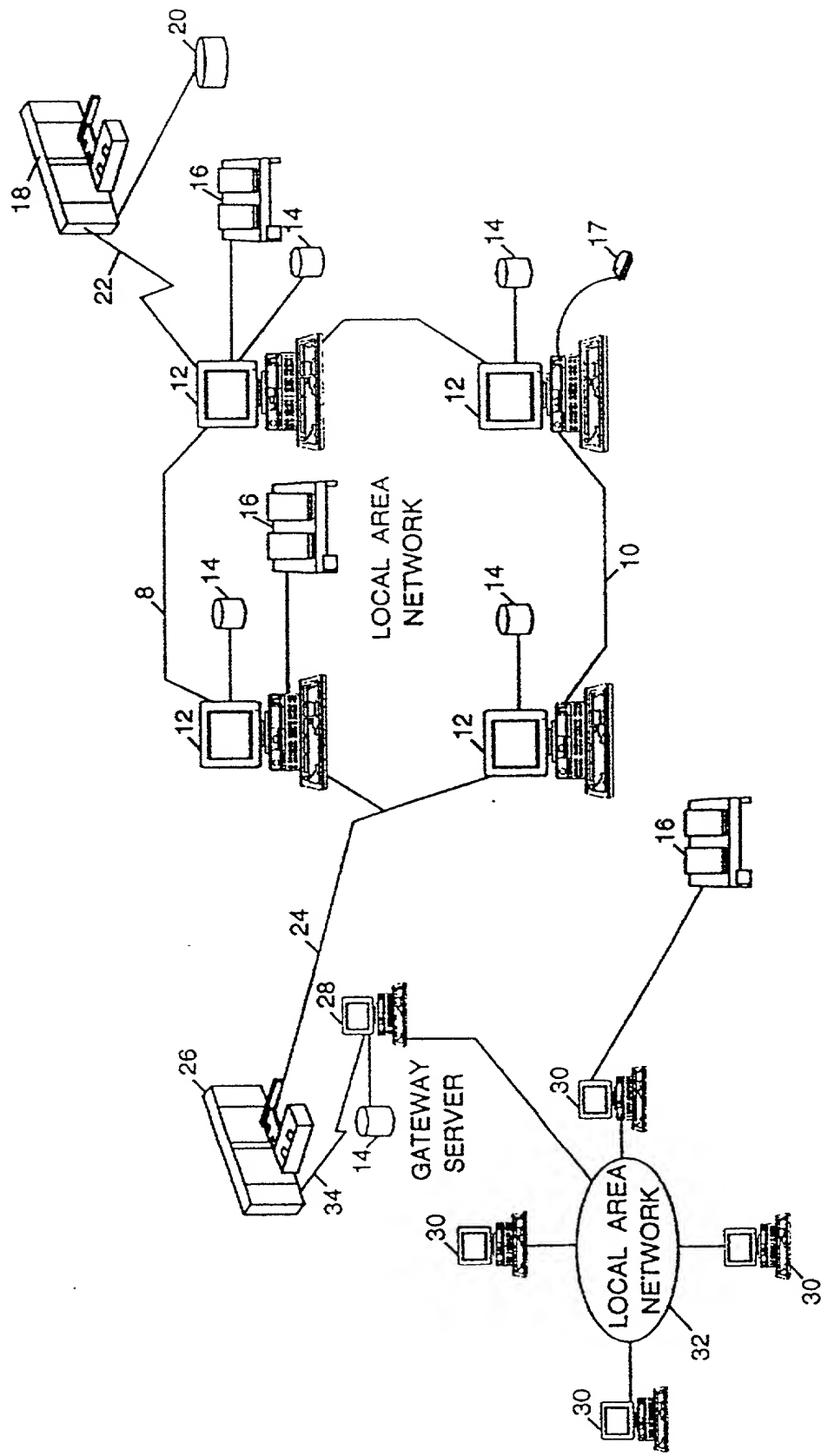


FIG. 1

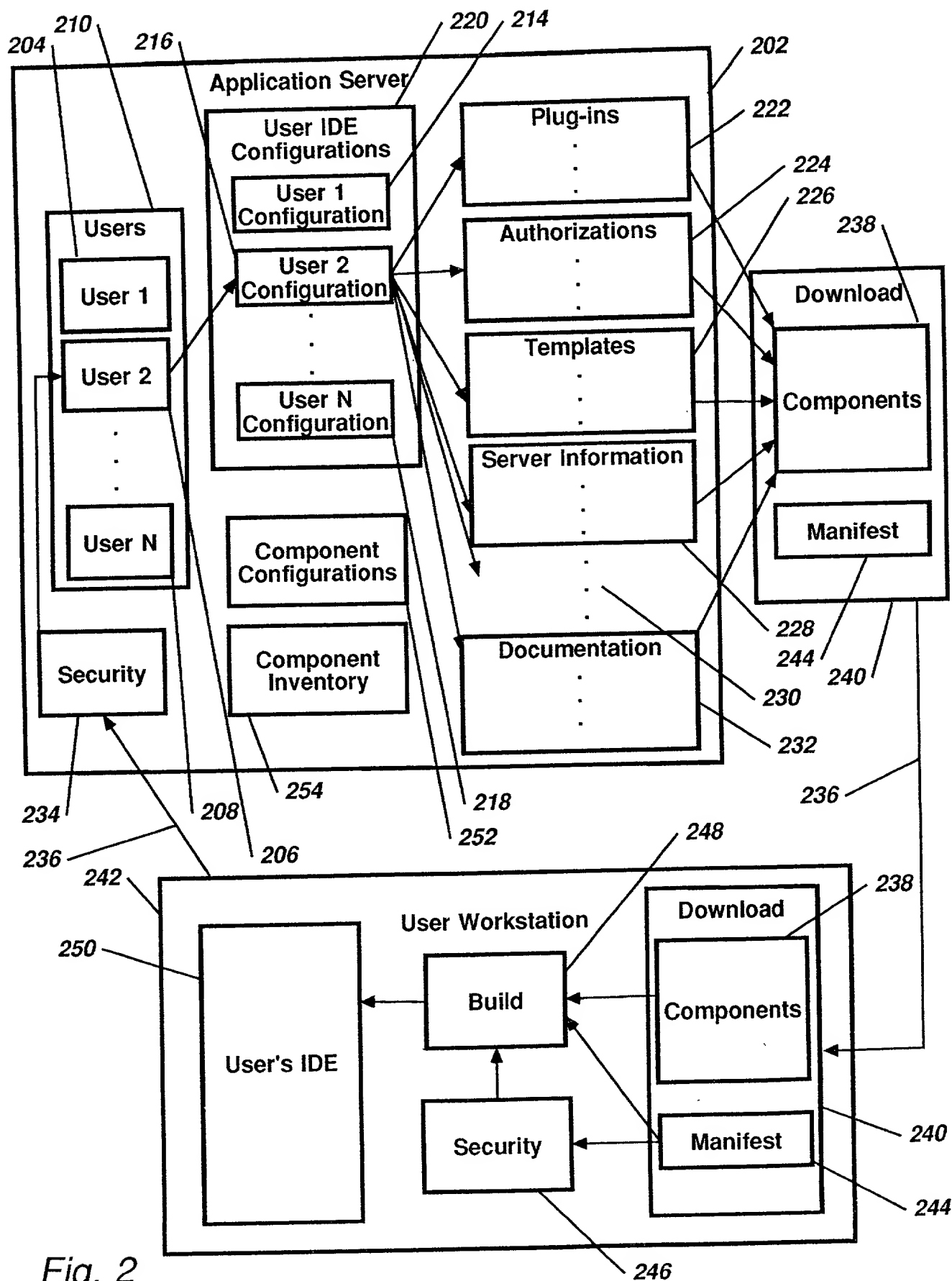


Fig. 2

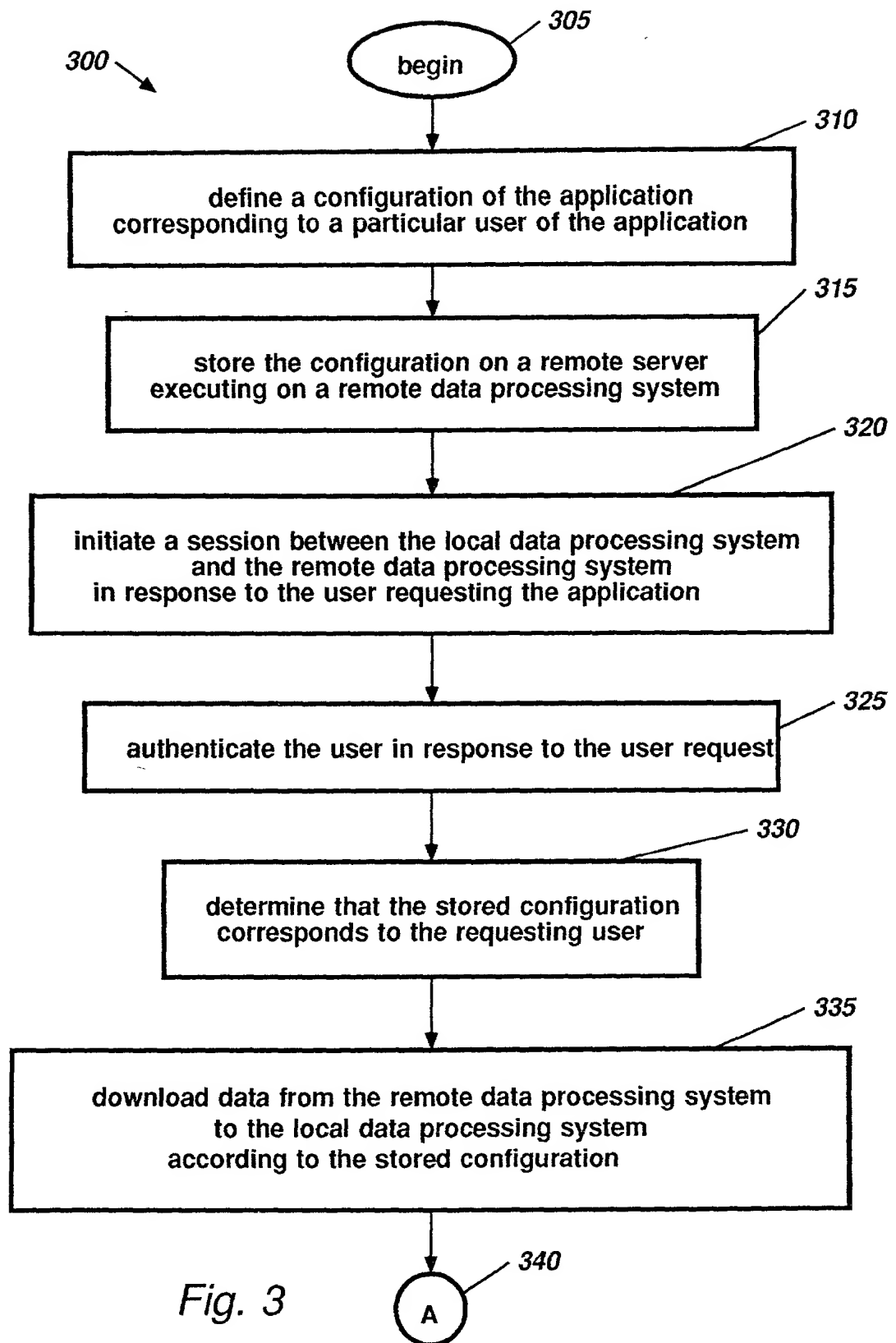


Fig. 3

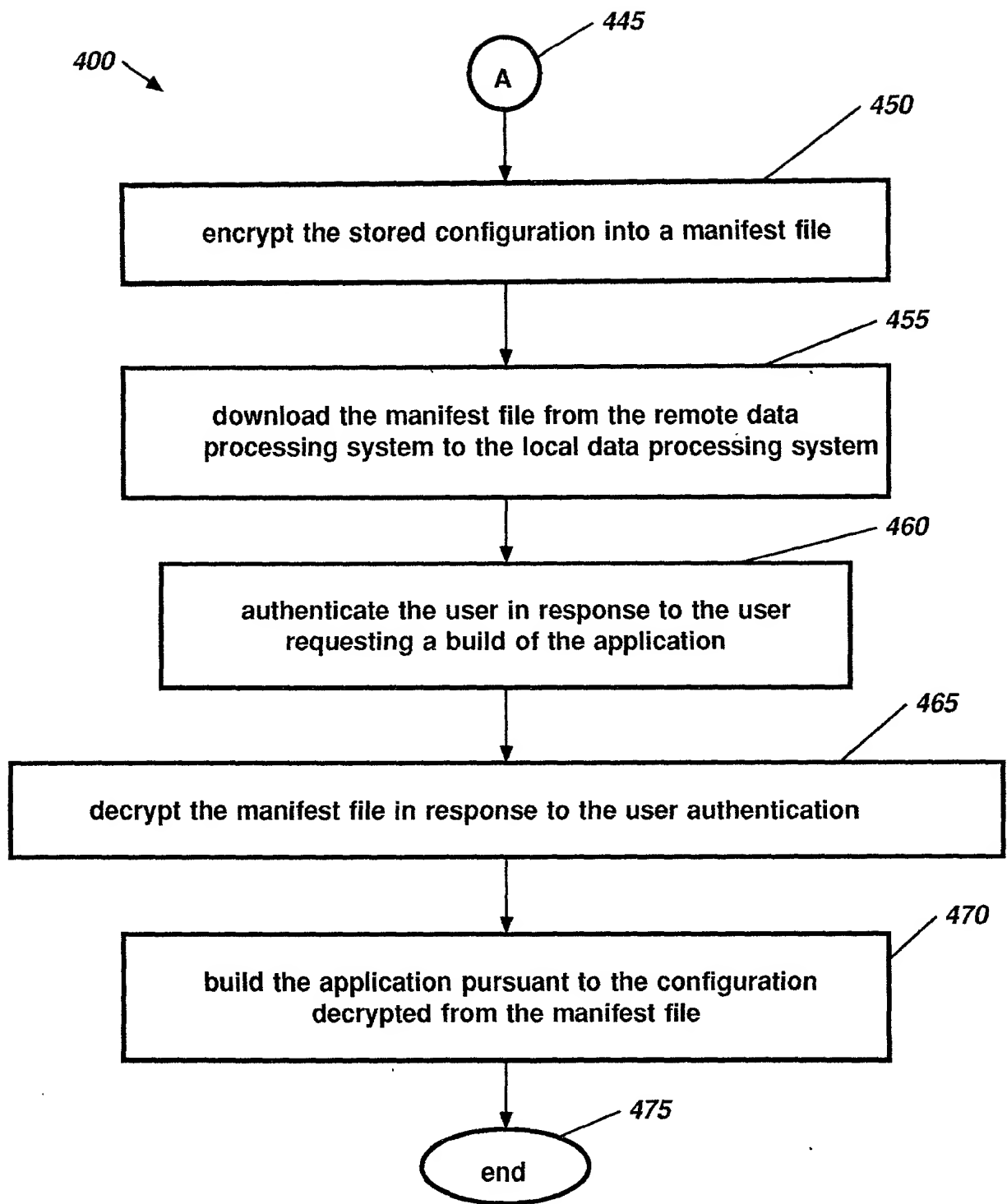


Fig. 4

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

DOCKET: STL920000091US1

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD, SYSTEM, COMPUTER PROGRAM PRODUCT, AND ARTICLE OF MANUFACTURE FOR DOWNLOADING A REMOTE COMPUTER PROGRAM ACCORDING TO A STORED CONFIGURATION

the specification of which (check one)

☒ is attached hereto.
☐ was filed on _____
as Application Serial No. _____
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Claimed
<u>None</u> (Number)	<u>Yes</u> <u>No</u>
(Country)	(Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56, which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>None</u> (Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

DOCKET:STL920000091US1

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Romualdas Strimaitis (#35,697)
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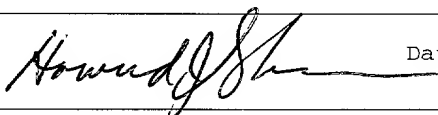
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Inventor's signature:



Date:

10/12/2000

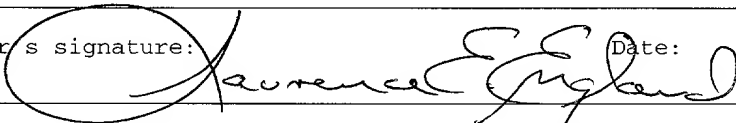
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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

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Inventor's signature  Date: 10/12/2000

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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION